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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

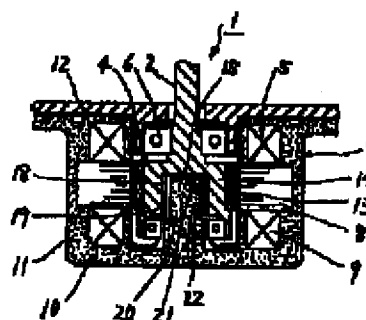
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SEIKI CO LTD**(72) Inventor: **SAKUMA MASASHI****(54) BRUSHLESS MOTOR****(57) Abstract:**

**PURPOSE:** To obtain a brushless motor which is reduced in size and weight and has excellent vibration resistance by providing a magnetic sensor for detecting rotary information detecting magnet on an inner periphery opposed to the magnet.

**CONSTITUTION:** A rotor 4 is rotatably supported in a brushless motor body 7, and provided with a field magnet 13 on an inner periphery integrally at a lower end of a rotary shaft 2 with a rotor yoke 14. Further, the yoke 14 is formed with a hollow part 15 therein, and an annular sensor magnet 18 and a magnetic encoder magnet 19 are adhesively fixed to an inner periphery of the part 15 over upper and lower stages. A pole discriminator 21 for switching energization of an armature coil 9 and a magnetic encoder sensor 22 for detecting a magnetic encoder magnet pole are installed on a support 20 formed integrally with resin 10 opposed to the magnets 18 and 19 through radial gaps.



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